

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/04433

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : A47L 01/02; G03D 05/04; G11B 03/58; US CL : 15/102, 97.1; 369/72; According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 15/102, 97.1, 103.5, 88.1, 77; 369/72; G11B 03/58; Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,005,223 A (TAYLOR et al) 24 October 1961 (24.10.1961), column 2, lines 22-62.	1-2, 4-7
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Y		8-14
X	US 4,101,999 A (DOYEL) 25 July 1978 (25.07.1978), column 3 line 48 to column 4 line 41).	1-2, 4, 15-17, 19
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Y		3, 8-10, 20-22
X	US 4,202,071 A (SCHARPF) 13 May 1980 (13.05.1980), column 2 lines 3-31 and column 3 lines 16-32.	1-4, 8-11, 15-17, 19, 21-22
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Y		12-14, 18, 20
X	US 4,604,672 A (DAVIS et al) 05 August 1986 (05.08.1986), column 5 lines 5-36, column 11 line 64 to column 12 line 11, column 14 lines 37-61.	1, 4-9, 12, 14, 15-16, 19-20
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Y		10-11, 13, 17-18
Y	US 2002/0129455 A1 (WEI) 19 September 2002 (19.09.2002), pages 1-2.	8, 12-14, 18
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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Date of the actual completion of the international search 20 April 2005 (20.04.2005)		Date of mailing of the international search report 29 APR 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer Laura Cole Telephone No. (571) 272-1700

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## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 57003206 A (AZUMA) 08 January 1982 (08.01.1982), figure 2.	12, 13
A	JP 54100701 A (OTSUKI) 08 August 1979 (08.08.1979), figures 1-3.	1-22